



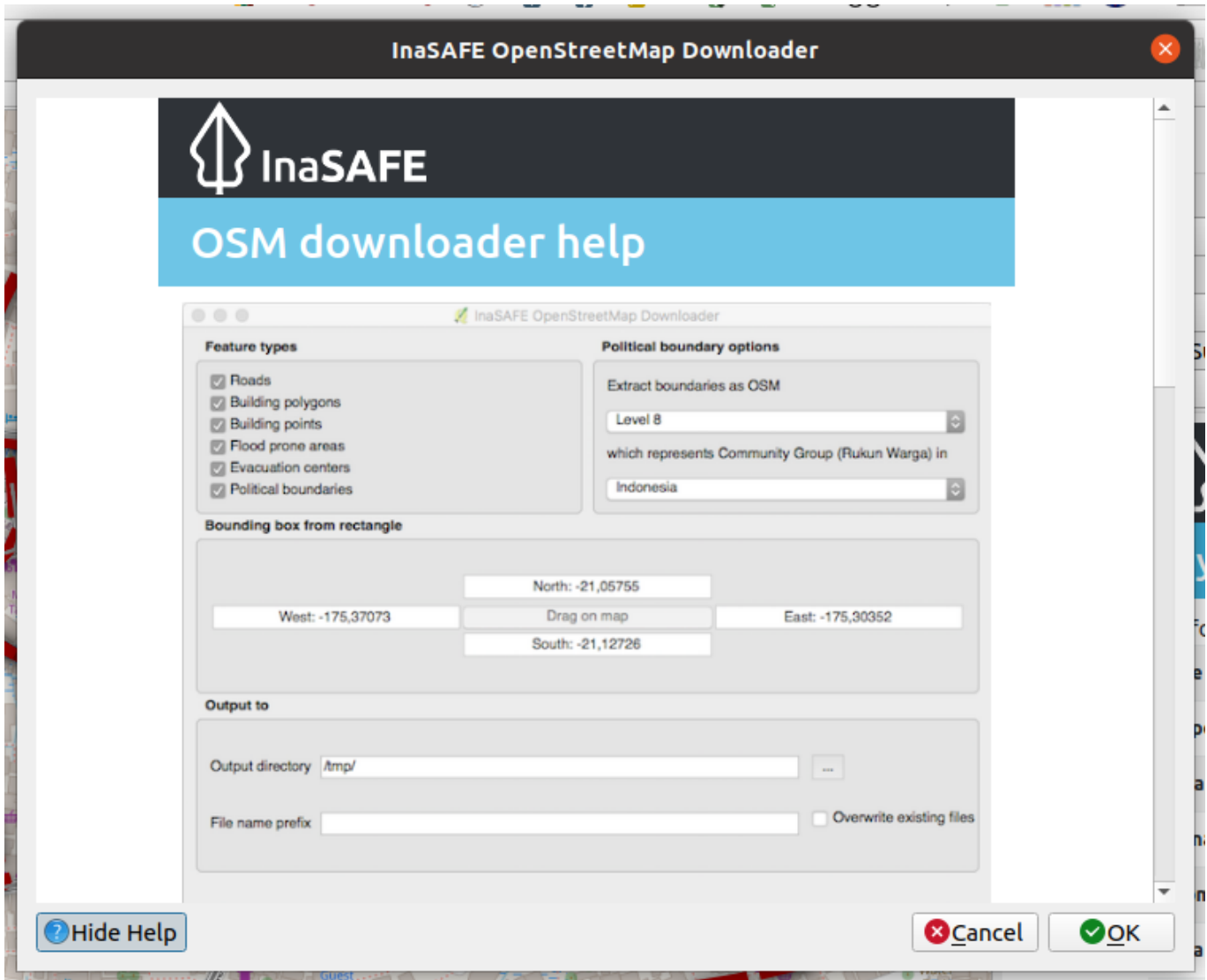
Section : 4. Participating in the InaSAFE community

Module : 4.2. InaSAFE Help System

Using the InaSAFE help system

"InaSAFE includes a comprehensive help system."

In this module we show you how to access help text when needed.



You try:

Goal: Learn three ways get help in InaSAFE!

- In the InaSAFE dock, press the help button.
- Open the OSM downloader tool. Press the help button. Press the same button to return to the dialog.
- Locate the help button on the InaSAFE toolbar and open the help.

Use the requirements table on below to locate the flood classes table in the main InaSAFE help window.

Check your results:

What was the displacement rate for high hazard class?

| Name | Expectation |
|--------------|-------------------|
| Find section | Flood classes |
| Find row | High |
| Find column | Displacement rate |

The screenshot shows the QGIS interface with the InaSAFE dock help window open. The dock help window is titled "InaSAFE Help" and contains the following text:

0.1. InaSAFE dock help

InaSAFE is free software that produces realistic natural hazard impact scenarios for better planning, preparedness and response activities. It provides a simple but rigorous way to combine data from scientists, local governments and communities to provide insights into the likely impacts of future disaster events.

The InaSAFE 'dock panel' helps you to run hazard impact analysis within the QGIS environment. It helps you create your hazard impact analysis question and shows the results of this analysis. If you are a new user, you may also consider using the 'Impact Function Centric Wizard' to run the analysis. This wizard will guide you through the process of running an InaSAFE assessment, with interactive step by step instructions. You can launch the wizard by clicking on this icon in the toolbar.

You can drag and drop the dock panel to reposition it on the screen. For example, dragging the panel towards the right margin of the QGIS application will dock it to the right side of the screen.

Below the dock help window, a "Show question form" window is visible, displaying an analysis question: "In the event of a Flood, what length of Roads might be affected?". It shows a general report with the following data:

| Estimated length of roads affected per hazard zone | |
|--|------------|
| Hazard Zone | Length (m) |
| Wet | 73 |
| Dry | 0 |
| Total Exposed | 73 |

| Roads | |
|--------------|------------|
| Affected | Length (m) |
| Affected | 73 |
| Not Affected | 0 |
| Not Exposed | 1,800 |

Below the tables, there is a definition for "Affected":

- Affected:** An exposure element (e.g. people, roads, buildings, land cover) that experiences a hazard (e.g. tsunami, flood, earthquake) and endures consequences (e.g. damage, evacuation, displacement, death) due to that hazard.

The QGIS interface also shows a layers panel on the left with various layers like "Flood Polygon On Roads Line", "Hazard Aggregation Summary", "Wards", "roads", and "OpenStreetMap". The status bar at the bottom shows the coordinate 4367834.7, 758239.3, scale 1:2910, and magnifier 100%.

More about

The help contents from InaSAFE are also published at manual.inasafe.org. One thing that is really important to know is that a large part of the help is generated from InaSAFE's internal metadata. So you can be sure that for example hazard classes listed in the help section always represent the current state of the software.

We especially want to draw your attention to the classification and threshold lists – they provide an insight into how exposure data will be classified and are an indispensable resource for you to properly understand what is happening during the analysis.

For developers, there is also a section at the bottom of the help document.

6.2.6. Tsunami classes

Tsunami hazards can be classified into one of four classes for an area. The area is either **dry**, **low**, **medium**, or **high**, for tsunami hazard classification. The following description for these classes is provided by Badan Geologi based on BNPB Perka 2/2012

Citations:

- BNPB Perka 2/2012

Classes:

| Name | Affected | Fatality rate | Displacement rate | Default values | Default min | Default max |
|--|----------|---------------|-------------------|----------------|-------------|-------------|
| High | True | unspecified | 100% | high | 3 | 9999 |
| The area is potentially hit by a tsunami wave with an inundation depth > 3 m or reach a tsunami intensity scale of VII or more (Papadopoulos and Imamura, 2001). Tsunami wave with 4 m inundation depth cause damage to small vessel, a few ships are drifted inland, severe damage on most wooden houses. Boulders are deposited on shore. If tsunami height reaches 8 m, it will cause severe damage. Dykes, wave breaker, tsunami protection walls and green belts will be washed away. | | | | | | |
| Medium | True | unspecified | 100% | medium | 1 | 3 |
| Water above 1.1m and less than 3.0m. The area is potentially hit by a tsunami wave with an inundation depth of 1 - 3 m or equal to V-VI tsunami intensity scale (Papadopoulos and Imamura, 2001). Tsunami wave with a 3m inundation depth causes most people frightened and to flee to higher ground. Small vessels drift and collide. Damage occurs to some wooden houses, while most of them are safe. | | | | | | |
| Low | False | unspecified | 0% | low | 0.1 | 1 |
| Water above ground height and less than 1.0m. The area is potentially hit by a tsunami wave with an inundation depth less than 1 m or similar to tsunami intensity scale of V or less in (Papadopoulos and Imamura, 2001). Tsunami wave of 1m height causes few people to be frightened and flee to higher elevation. Felt by most people on large ship, observed from shore. Small vessels drift and collide and some turn over. Sand is deposited and there is flooding of areas close to the shore. | | | | | | |
| Dry | False | unspecified | 0% | dry | 0 | 0.1 |
| No water above ground height. | | | | | | |
| Not exposed | | | | | | |



Check your knowledge:

1. There is no help system for InaSAFE:

- True
- False

2. Mark all the correct statements:

- When you have a tool window open, clicking help will show help in that dialog. Click the hide help button to show the tool window again.
- The InaSAFE help documentation is different from the online version at <http://manual.inasafe.org>.
- The help system provides detailed breakdowns of hazard classes.



Further reading:

- See the shakemap importer tool section in the InaSAFE user manual at: <http://manual.inasafe.org/en/index.html#shakemap-converter>